



GAU/2631

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Attorney Docket No. 1043.002In re application of: Azzedine Touzni, Raúl A. Casas, Thomas J. Endres, Stephen L. Biracree, Christopher H. Strolle, and Samir N. HulyalkarSerial No.: 09/922,006Group No.: 2631Filed: 08/03/01Examiner: Not Yet AssignedFor: Carrier Phase Estimation Based On Single-Axis Constant Modulus Cost Criterion**INFORMATION DISCLOSURE STATEMENT**Hon. Commissioner of Patents and Trademarks
Washington, D.C. 20231

Dear Sir:

In accordance with 37 CFR § 1.56, this is an Information Disclosure Statement (IDS) for the above-captioned U.S. patent application. An IDS Form PTO-1449 listing references is enclosed herewith and forms a part hereof.

Certification Under 37 CFR § 1.704(d)

- [] Each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of this statement.

Certification Under 37 CFR § 1.97(e)

- [] Each item of information contained in this statement was either (1) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement or (2) not known to any individual designated in § 1.56(c) more than three months prior to the filing of this statement.

* * * * *

Certification Under 37 CFR 1.8Date of Deposit November 14, 2001.

I hereby certify that this paper and any accompanying papers or fees are being deposited with the U.S. Postal Service with sufficient postage as first class mail under 37 CFR 1.8 on the date indicated above and addressed to the Commissioner for Patents, Washington, D.C. 20231.

Mary E. Caniz
(Name of person mailing)Mary E. Caniz
(Signature of person mailing)RECEIVED
NOV 29 2001
Technology Center 2600



Petition Under 37 CFR § 1.97(d)

This is a petition requesting consideration of an IDS under § 1.97(d). The petition fee for submission of this IDS under § 1.97(d) is \$130.00 as set forth in § 1.17(i).

Provision of Copies of References

- ☒ A copy of each of the listed references is enclosed herewith and forms a part hereof.
- ☐ A translation of each of Reference(s) __ is enclosed herewith and forms a part hereof.
- ☐ A copy of the International Search Report from a corresponding PCT application is enclosed herewith.
- ☐ A copy of the European Search Report from a corresponding EPO application is enclosed herewith.
- ☐ The above-captioned U.S. patent application is a
- ☐ continuation
 - ☐ divisional
 - ☐ continuation-in-part

application of U.S. application serial number __, filed on __ as Attorney Docket No. __. Each of the listed references was previously cited by or submitted to the Office in the prior application. The above-captioned U.S. patent application relies upon the prior application for an earlier filing date under 35 U.S.C. 120. Pursuant to § 1.98(d), copies of the listed references are not being provided with this IDS.


Authorization To Charge Deposit Account

- ☒ Authorization is given to charge **Deposit Account 50-0872** name of **Mendelsohn & Associates, P.C.** for any fee under § 1.97(c) and § 1.17(p) or under § 1.97(d) and § 1.17(i).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449 form as confirmation that each of the documents has been considered.

Respectfully submitted,

Date: November 14, 2001
Customer No. 22186
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Enclosures

1043.002

09/922,006

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FILING DATE

GROUP

08/03/01

2631

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B ILSW 2AM H 32NM MTOTOL 01431350 US

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FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AB		"Self-Recovering Equalization and Carrier Tracking in Two-Dimensional Data Communication Systems" by D. N. Godard, IEEE Transactions on Communications, Vol. 28, No. 11, Oct. 1980, pp. 1867-1875.
	AC		"A New Approach to Multipath Correction of Constant Modulus Signals" by John R. Treichler and Brian G. Agee, IEEE Transactions On Acoustics, Speech, And Signal Processing, Vol. ASSP-31, No. 2, April 1983, pp. 459-471.
	AD		"Global convergence Of A Single-Axis Constant Modulus Algorithm" by A. Shah, et al, Proceedings of the Statistical Signal and Array Processing Workshop, Pocono Manor, PA, August 2000.
	AE		"Blind Deconvolution" by Simon Haykin, Chapter 2, Prentice Hall, Englewood Cliffs, NJ, 1994, pps. 8-59. cv

EXAMINER	DATE CONSIDERED
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(Form PTO-1449)